



# Pulse Policy Secure

Access Control with Check Point Next-Generation  
Firewall

## Deployment Guide

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*Pulse Policy Secure: Admission Control with Check Point Next-Generation Firewall*

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# Purpose of this Guide

This guide describes how to configure *Pulse Policy Secure (PPS)* to provide identity-based admission control using *Check Point Next-Generation Firewall*.

## Prerequisites

This guide assumes you are familiar with the use of the following products and their related terminology.

- *Pulse Policy Secure* at version 9.1R4
- *Check Point Next-Generation Firewall* at version R80.10.

# Identity-Based Access Control with Check Point

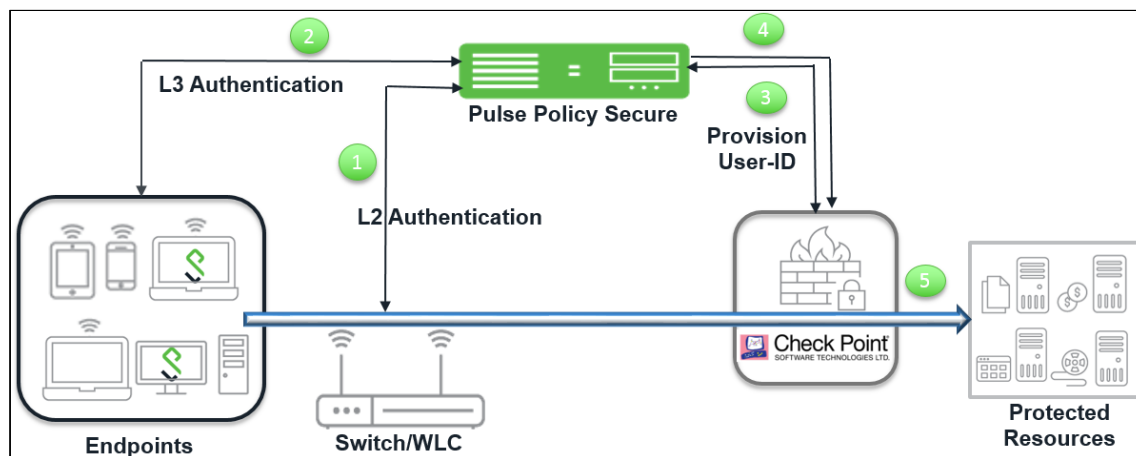
This section describes how to integrate Check Point Next Generation Firewall with PPS to support Identity-based admission control in your network.

## Overview: Deploying PPS with Check Point Next-Generation Firewall

This section describes the integration of *PPS* with *Check Point Next-Generation Firewall*. The *Check Point Next-Generation Firewall* controls the access to protected resources (for example, internet, CRM systems, Wikis and so on.) based on policy settings that defines the access. The *Check Point Next-Generation Firewall* enables integration with directory sources (For example, AD or LDAP) to get user and group information. The policies are then defined based on user role information.

*PPS* serves as the provider of identity information (For example, user-ID, IP address, and roles) for *Check Point Next-Generation Firewall*. The *Check Point Next-Generation Firewall* uses the identity information provided by the *PPS* for deciding the resource access.

Figure 1: Integrating Check Point with PPS



The authentication process is described below:

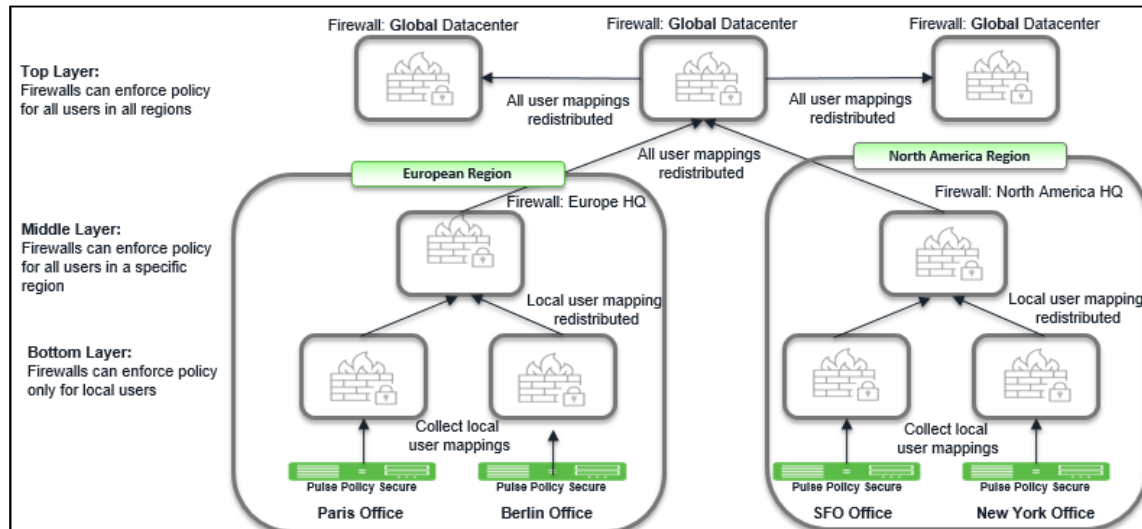
- 1) The endpoints connect to Switch/WLAN and performs the layer 2 authentication with *PPS*.
- 2) *PPS* performs the layer 3 authentication and performs compliance check on the endpoint and detects for any unauthorized behavior. *PPS* can also learn endpoint IP address using accounting and provision mapping.
- 3) *PPS* provisions the auth table entries (user-ID, IP address, and roles) on the *Check Point Next-Generation Firewall*.
- 4) The user role changes, which includes any unauthorized behavior are dynamically updated on the Next-Generation Firewall. *PPS* provisions the auth table with changes in role information if any on *Check Point Next-Generation Firewall*. The access is based on roles.
- 5) The *Check Point Next-Generation Firewall* applies policies to allow or block user access to protected resources.

## Overview: Deploying PPS with Check Point Next-Generation Firewall

## in a Large Enterprise

For an enterprise with remote branch offices connected to the headquarters with VPN, deploy the Security Gateway at the remote branch offices. When you enable Identity Awareness on the branch office Security Gateway, users are authenticated before they reach internal resources. The identity data on the branch office Security Gateway is shared with other Security Gateways to avoid unnecessary authentication.

Figure 2: Integrating Check Point with PPS for a Large Enterprise



## Summary of Configuration

To prepare your network to perform identity-based admission control using Pulse Policy Secure and Check Point Next-Generation Firewall, perform the following tasks:

- [Configuring PPS with Check Point Next-Generation Firewall.](#)
  - [Configuring Check Point Infranet Enforcer in PPS.](#)
  - [Configuring Auth Table Mapping Policies.](#)
- [Configuring Check Point Next-Generation Firewall.](#)
  - [Configuring Identity Awareness.](#)

## Configuring PPS with Check Point Next-Generation Firewall

The *PPS* configuration requires adding *Check Point Next-Generation Firewall* as an Infranet Enforcer and creating the auth table mapping policy.

This section covers the following topics:

- [Configuring Check Point Infranet Enforcer in PPS.](#)
- [Configuring Auth Table Mapping Policies.](#)

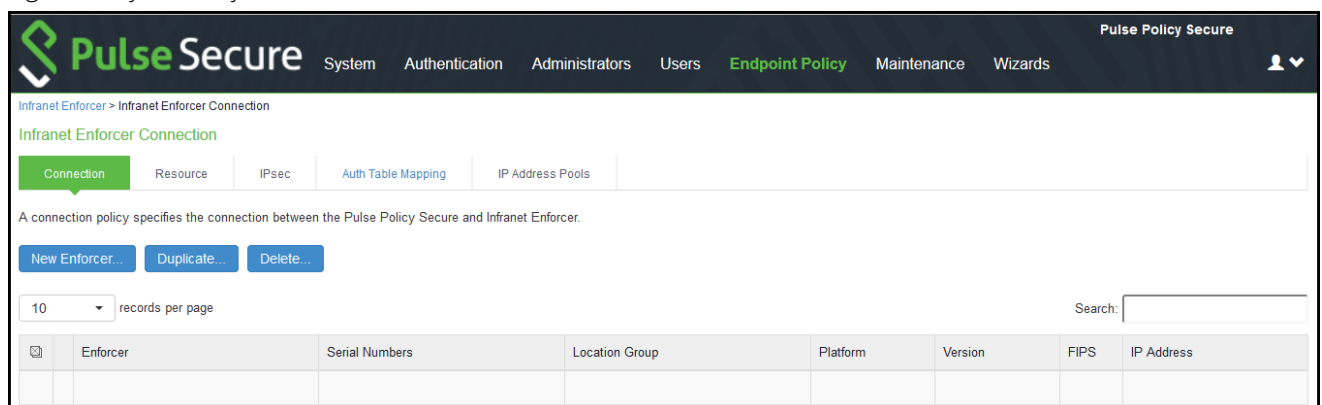
## Configuring Check Point Infranet Enforcer in PPS

The *PPS* configuration requires defining a new *Check Point Next-Generation Firewall* Infranet Enforcer instance on *PPS* and then fetching the pre-configured shared secret key from the Next-Generation Firewall. The shared secret key is used to communicate between the *Check Point Next-Generation Firewall* and *PPS*. The standard user authentication / authorization configurations such as Auth Table Mapping Policies should also be created and associated with the required roles.

To configure a *Check Point Next-Generation Firewall* Infranet Enforcer in *PPS*:

- 1) Select **Endpoint Policy > Infranet Enforcer**.

Figure 3: Infranet Enforcer



- 2) Click **New Infranet Enforcer** and select **Check Point Firewall** in the Platform drop down.

- 3) Enter the **Name** and **IP Address** of the *Check Point Next-Generation Firewall* and enter the shared secret between *PPS* and *Check Point Next-Generation Firewall*.

**Note:** PPS has the default server URL for Check Point R80.10. You can edit/modify the server URL as per your requirement. For Check Point version (R77.30), edit the server URL manually to `https://<IP_Address>/_IA_MU_Agent/idasdk`

Figure 4: Check Point Next-Generation Firewall

The screenshot displays the Pulse Secure web interface. The top navigation bar includes the Pulse Secure logo and links for System, Authentication, Administrators, Users, Endpoint Policy, Maintenance, and Wizards. The breadcrumb trail indicates the current location: Infranet Enforcer > Connection > CP\_1. The main section is titled 'CP\_1' and contains a 'Connection' tab. Under the 'Infranet Enforcer' section, the following fields are visible:

- Platform:** A dropdown menu set to 'Check Point Firewall'.
- \* Name:** A text field containing 'Check Point'.
- \* IP Address:** A text field containing '10.20.0.100'.
- \* Shared Secret:** A text field with masked characters (\*\*\*\*\*).
- Server Certificate Validation:** A checkbox that is currently unchecked.

Below the fields, there is a 'Save Changes' button. To the right of the fields, descriptive text is provided: 'Platform of this Infranet Enforcer.', 'Label to reference this Infranet Enforcer.', 'IP Address of this Infranet Enforcer', and 'Pre-Shared Secret:'. A note states: 'By default the Server Uri will be "https://<ipAddress>/\_IA\_API/v1.0". To modify Server Uri click on [edit](#)'.

- 4) (Optional) Select **Server Certificate Validation** to verify the Next-Generation Firewall certificate.
- 5) Click **Save Changes**.



## Configuring Auth Table Mapping Policies

An auth table entry consists of the user's name, a set of roles, and the IP address of the user device. An auth table mapping policy specifies which enforcer device (Next-Generation Firewall) can be used for each user role. These policies prevent the *PPS* from creating unnecessary auth table entries on all connected enforcer devices.

*PPS*'s default configuration includes only one default auth table mapping policy. When the default auth table mapping policy is enabled, *PPS* pushes one auth table entry for each authenticated user to the selected *Check Point Next-Generation Firewall* configured as Infranet Enforcers in *PPS*.

To configure an auth table mapping policy:

- 1) Select **Endpoint Policy > Infranet Enforcer > Auth Table Mapping** and click **New Policy**.

Figure 5: Check Point Next-Generation Firewall Configuration

The screenshot displays the Pulse Secure web interface for configuring a policy. The breadcrumb trail is: Infranet Enforcer > Infranet Enforcer Auth Table Mapping Policies > Default Policy. The page title is "Default Policy".

**General**

\* Name: CP Policy (Required: Label to reference this policy.)  
Description: (Empty text area)

**▼ Infranet Enforcer**

Specify the Infranet Enforcer(s) to which this policy applies.

Available Enforcers: (none) | Add -> | Remove

Selected Enforcers: CP\_1

**▼ Roles**

☐ Policy applies to ALL roles  
☒ Policy applies to SELECTED roles  
☐ Policy applies to all roles OTHER THAN those selected below

Available roles: Guest, Guest Admin, Guest Sponsor, Guest Wired Restricted, Users | Add -> | Remove

Selected roles: Full\_Access, Limited\_Access

**▼ Actions**

☒ Always Provision Auth Table  
☐ Provision Auth Table As Needed (Only available for Juniper enforcers.)  
☐ Never Provision Auth Table

VSYS: (Empty text field)

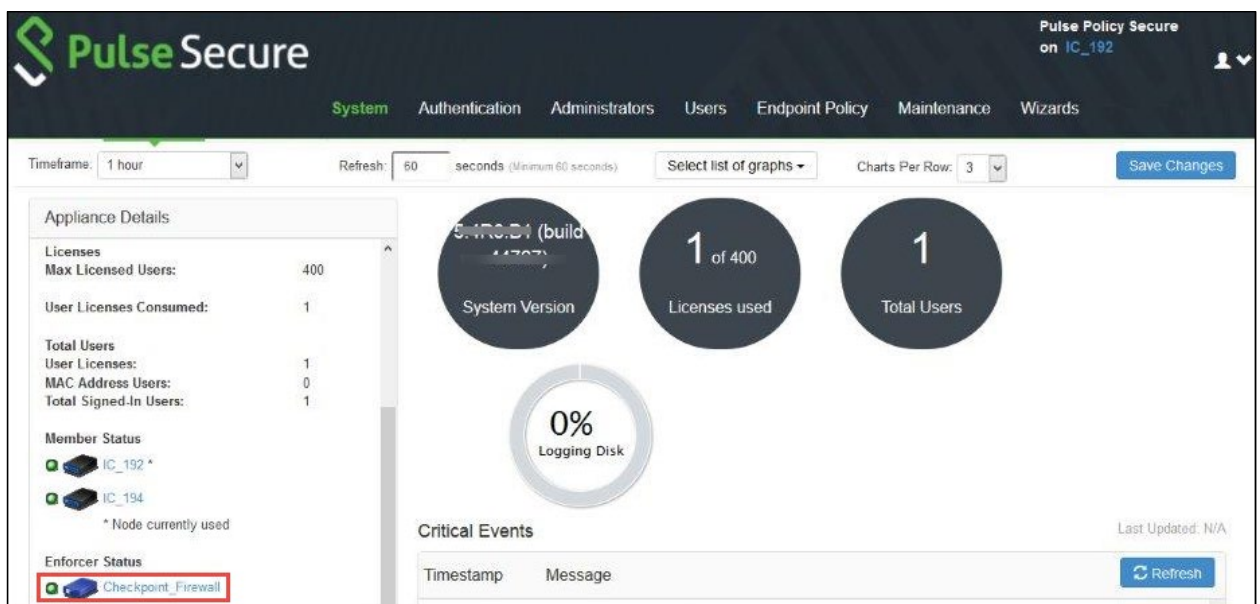
Save Changes | Save as Copy

\* indicates required field

- 2) On the **New Policy** page:
  - a) For **Name**, enter a name to label the auth table mapping policy.
  - b) (Optional) For **Description**, enter a description.

- c) In the **Enforcer** section, specify the Infranet Enforcer firewall(s) to which you want to apply the auth table mapping policy.
  - d) In the **Roles** section, specify:
    - *Policy applies to ALL roles:* Select this option to apply the auth table mapping policy to all users.
    - *Policy applies to SELECTED roles:* Select this option to apply the auth table mapping policy only to users who are mapped to roles in the **Selected** roles list. You can add roles to this list from the available roles list.
    - *Policy applies to all roles OTHER THAN those selected below:* Select this option to apply the auth table mapping policy to all users except for those who map to the roles in the **Selected** roles list. You can add roles to this list from the available roles list.
  - e) In the **Action** section, specify auth table mapping rules for the specified Infranet Enforcer.
    - *Always Provision Auth Table:* Select this option to automatically provision auth table entries for chosen roles on the specified Infranet Enforcer.
    - *Provision Auth Table as Needed:* Select this option to provision auth table entries only when a user with a chosen role attempts to access a resource behind the specified Infranet Enforcer. This option is greyed out for *Check Point Next-Generation Firewall* Enforcers since it is not supported.
    - *Never Provision Auth Table:* Select this option to prevent chosen roles from accessing resources behind the specified Infranet Enforcer.
- 3) You must delete the default policy if you configure any custom auth table mapping policies. *The default configuration includes this default auth table mapping policy that allows all source IP endpoints to use all Infranet Enforcers.*
  - 4) Click **Save Changes**.

Figure 6: Enforcer Status

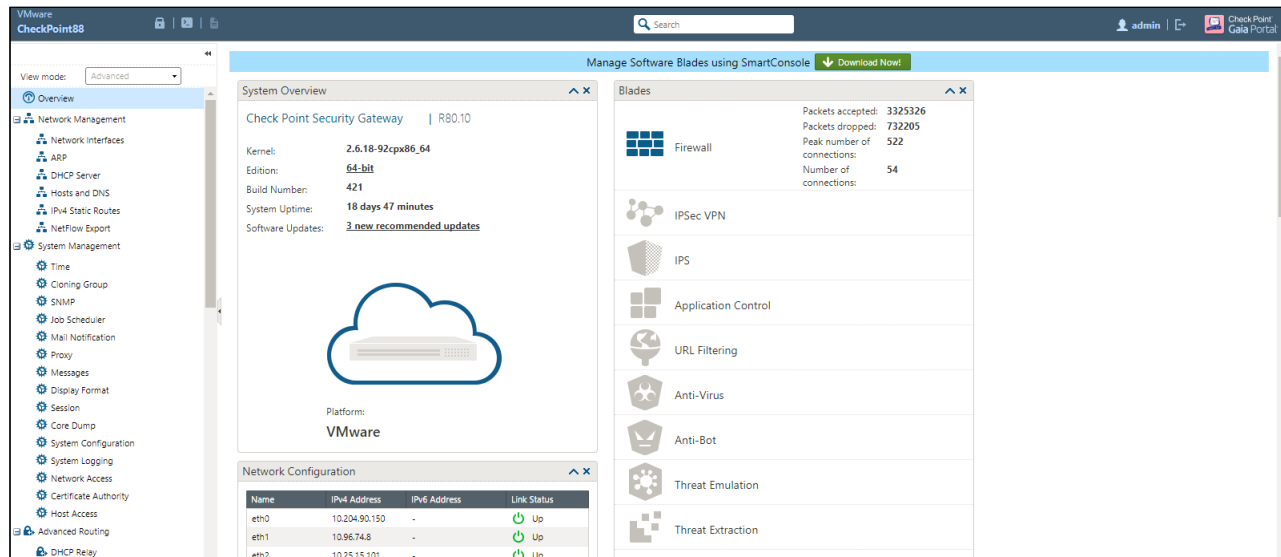


## Configuring Check Point Next-Generation Firewall

Check Point Next-Generation Firewall detects traffic from an endpoint that matches a configured security policy using the access roles. It determines the role(s) associated with that user, and allows or denies the traffic based on the actions configured in the security policy.

The network interfaces are configured on the Check Point Next-Generation firewall and the remaining configurations are done on the Check Point Smart Console.

Figure 7: Check Point R80.10



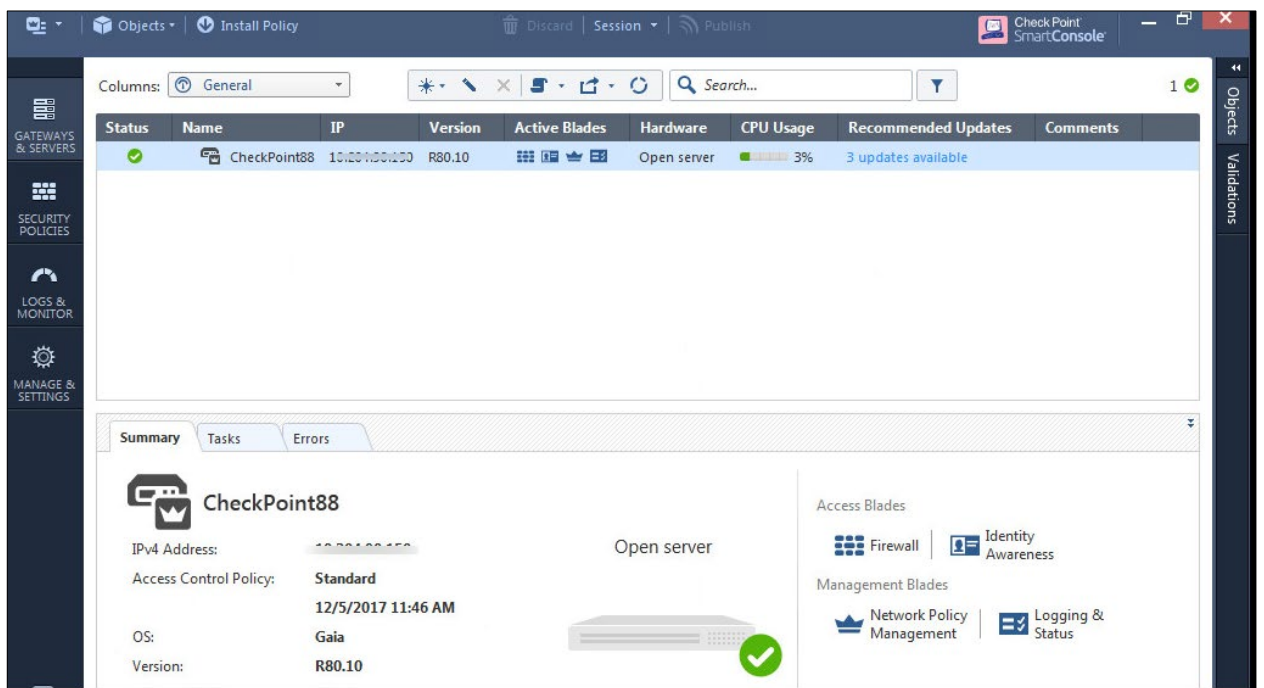
## Configuring Identity Awareness using Smart Console

The Identity Awareness lets you easily configure network access and auditing based on network location, identity of user, and identity of the device. When Identity Awareness identifies a source or destination, it shows the IP address of the user or computer with a name. For example, this lets you create firewall rules with any of these properties. You can define a firewall rule for specific users when they send traffic from specific computers or a firewall rule for a specific user regardless of which computer they send traffic from.

To enable Identity awareness:

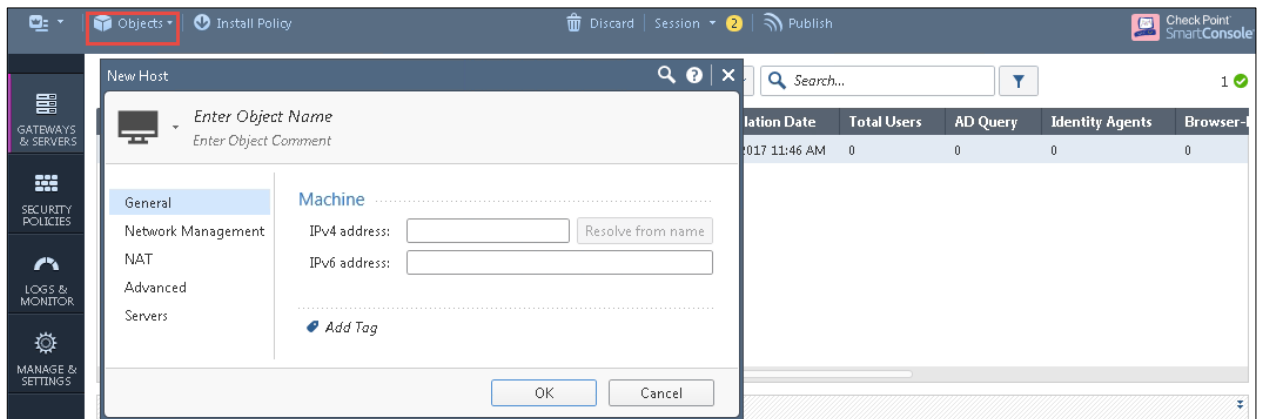
- 1) Login to the Check Point SmartConsole.
- 2) From the **Security & Gateways** view, double-click the Security Gateway on which to enable identity awareness.

Figure 7: SmartConsole



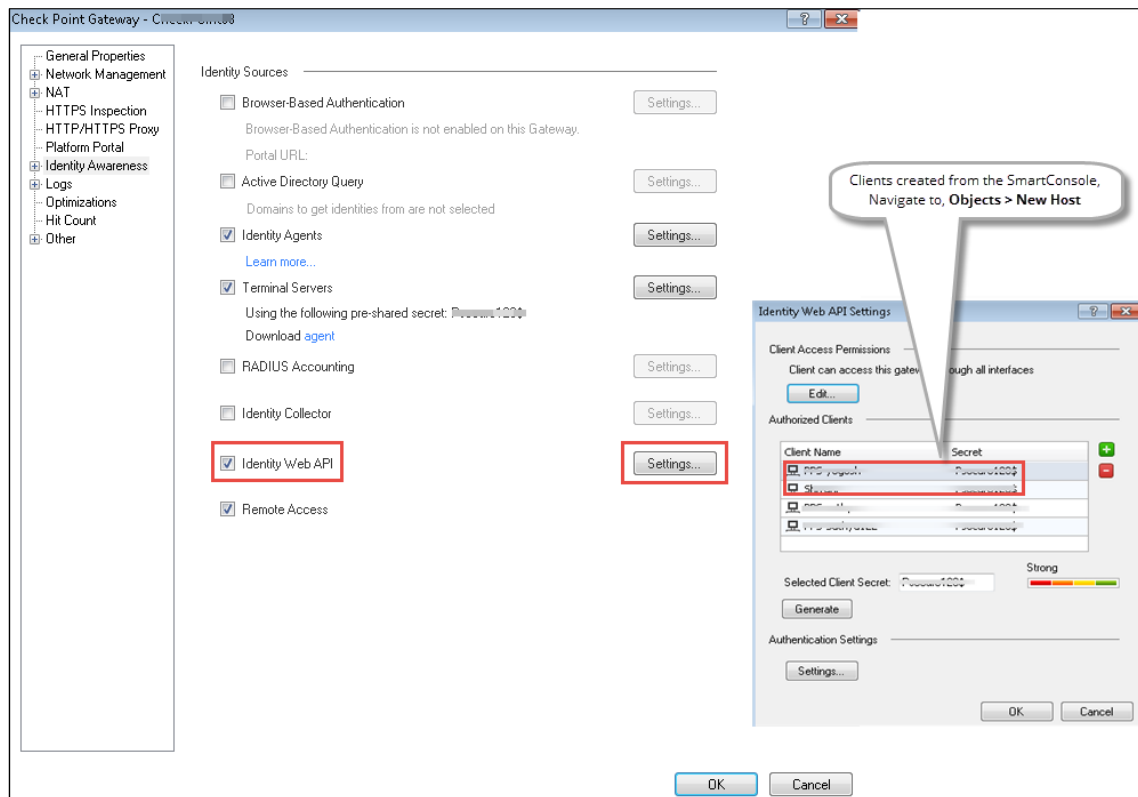
- 3) Create an object for PPS. Select **Objects > New Host** and enter the PPS IP address. Under Servers, enable Web Server and click OK.

Figure 8: Host



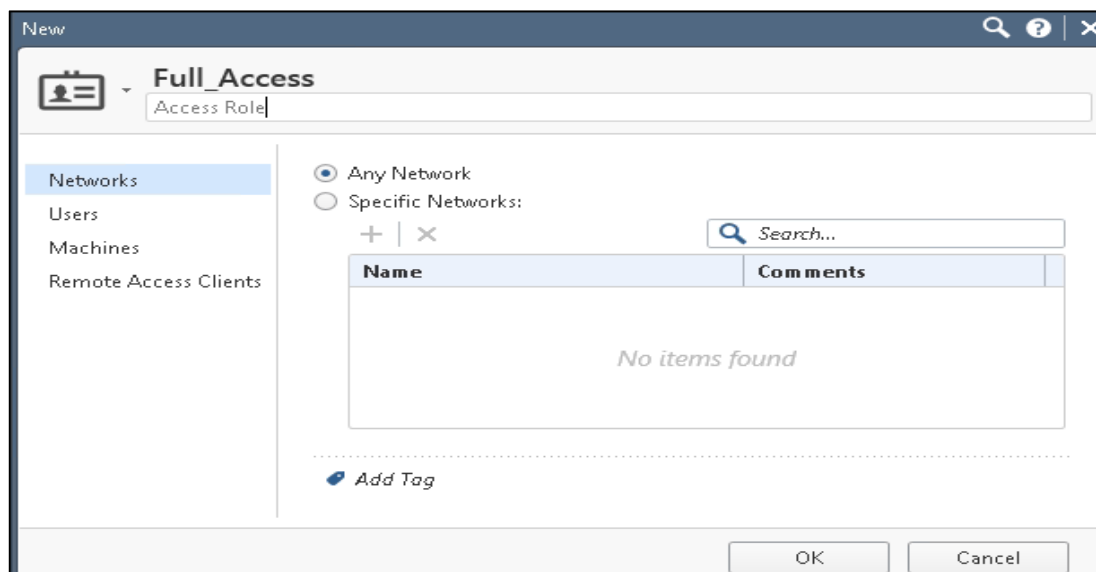
- 4) Select **Gateways & Servers > Identity Awareness** and enable the following options:
  - a) Terminal Servers- Note down the pre-shared secret key.
  - b) Identity Web API- Click **Settings** and add the PPS device as Authorised Clients.

Figure 9: Identity Awareness



- 5) Click **Install Policy**
- 6) From the Object Explorer create an object for Identity matching by creating user roles. Select **Objects > Object Explorer** and Click **New > Users > Access Role**

Figure 10: Creating Access Roles

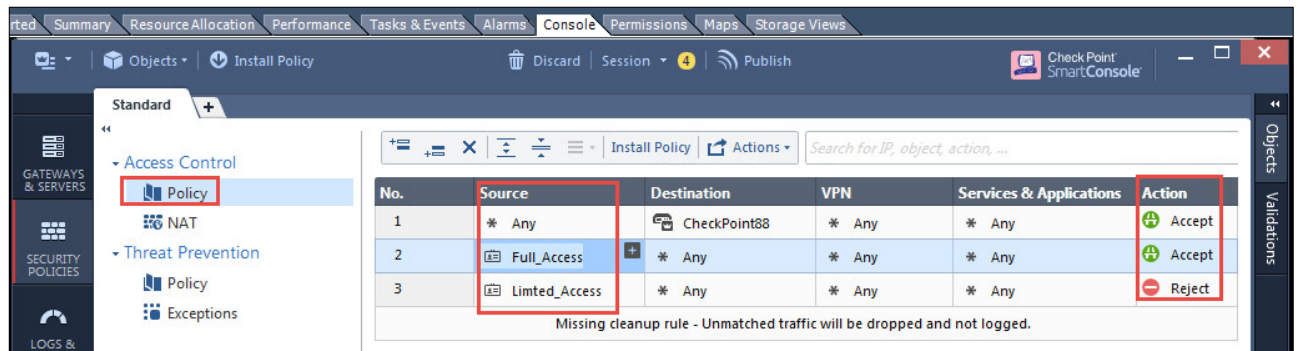


- 7) From the Smart Console create a security policy by keeping the Access Role in Source column. Select **Security Policies > Access Control > Policy** and then configure the required policies. For example:

- *Full\_Access* role policy allows traffic from Client with *Full\_Access* role
- *Limited\_Access* role policy denies traffic from Client with *Limited\_Access* role

**NOTE:** The *Full\_Access* role is on the top of the list as it should be considered first. The role names must match with the Role names created on *PPS*.

Figure 11: Security Policy based on Access Roles



8) Click **Install Policy**.

## Troubleshooting

You can use the following CLI commands (Expert Mode) on the *Check Point Next-Generation Firewall* for troubleshooting:

**pdp monitor all**

This displays the table of user identities mapped to IP addresses.

## Unsupported Features

The following features are not supported:

- IP Address Pools.
- IPsec Enforcement.
- IDP Sensors.
- Virtual Systems (VSYS).
- Enforcement for endpoints behind Network Address Translation (NAT).
- Resource access policies. The administrator should configure all firewall policies on the firewall through Check Point *SmartConsole*.

# Alert-Based Admission Control with Check Point

This section describes how to integrate Check Point Next Generation Firewall with PPS to support Alert-based admission control in your network.

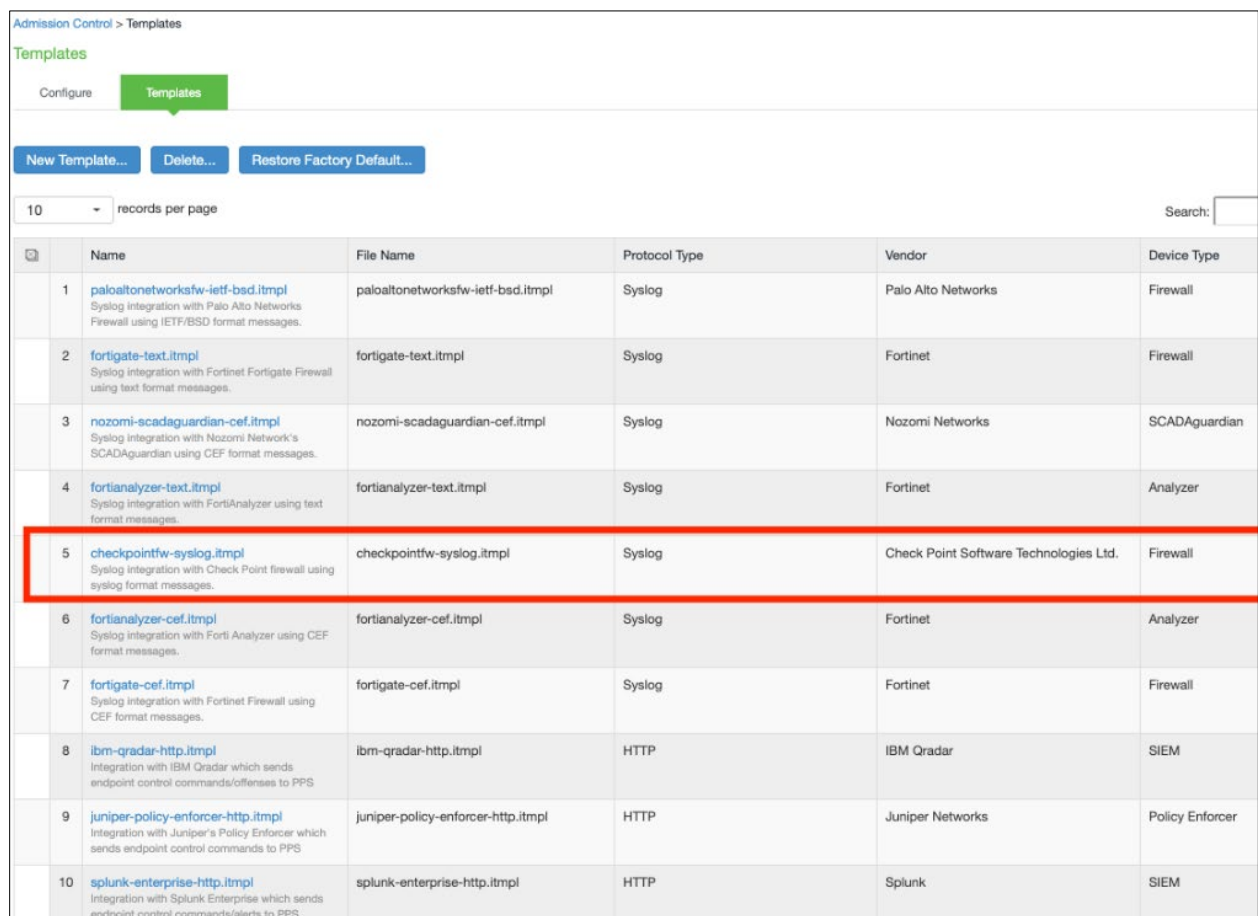
## Configuring Pulse Policy Secure

This section describes the integration of PPS with Check Point Next Generation firewall. PPS integrates with Check Point's syslog notification mechanism to receive the threat alert information from Check Point and takes an action based on the admin configured policies.

To view and add the admission control templates:

- 1) Select **Endpoint Policy > Admission Control > Templates**.

Figure 12: Check Point Template



	Name	File Name	Protocol Type	Vendor	Device Type
1	<a href="#">paloaltonetworksfw-ietf-bad.itmpl</a> Syslog integration with Palo Alto Networks Firewall using IETF/BSM format messages.	paloaltonetworksfw-ietf-bad.itmpl	Syslog	Palo Alto Networks	Firewall
2	<a href="#">fortigate-text.itmpl</a> Syslog integration with Fortinet Fortigate Firewall using text format messages.	fortigate-text.itmpl	Syslog	Fortinet	Firewall
3	<a href="#">nozomi-scadaguardian-cef.itmpl</a> Syslog integration with Nozomi Network's SCADAguardian using CEF format messages.	nozomi-scadaguardian-cef.itmpl	Syslog	Nozomi Networks	SCADAguardian
4	<a href="#">fortianalyzer-text.itmpl</a> Syslog integration with FortiAnalyzer using text format messages.	fortianalyzer-text.itmpl	Syslog	Fortinet	Analyzer
5	<a href="#">checkpointfw-syslog.itmpl</a> Syslog integration with Check Point firewall using syslog format messages.	checkpointfw-syslog.itmpl	Syslog	Check Point Software Technologies Ltd.	Firewall
6	<a href="#">fortianalyzer-cef.itmpl</a> Syslog integration with Forti Analyzer using CEF format messages.	fortianalyzer-cef.itmpl	Syslog	Fortinet	Analyzer
7	<a href="#">fortigate-cef.itmpl</a> Syslog integration with Fortinet Firewall using CEF format messages.	fortigate-cef.itmpl	Syslog	Fortinet	Firewall
8	<a href="#">ibm-qradar-http.itmpl</a> Integration with IBM Qradar which sends endpoint control commands/offenses to PPS	ibm-qradar-http.itmpl	HTTP	IBM Qradar	SIEM
9	<a href="#">juniper-policy-enforcer-http.itmpl</a> Integration with Juniper's Policy Enforcer which sends endpoint control commands to PPS	juniper-policy-enforcer-http.itmpl	HTTP	Juniper Networks	Policy Enforcer
10	<a href="#">splunk-enterprise-http.itmpl</a> Integration with Splunk Enterprise which sends endpoint control commands/alerts to PPS	splunk-enterprise-http.itmpl	HTTP	Splunk	SIEM

- 2) Select **Endpoint Policy > Admission Control > Clients**, choose **Check Point Software Technologies Ltd-Firewall-Syslog-text** as template during the template creation.

Figure 13: Client

Admission Control > Configure > Clients > New Client

### New Client

\* Name:  Label to reference this client.

Description:

\* IP Address:  IP Address of this client.

\* Template: Check Point Software Technologies Ltd.-Firewall-Syslog-text Template used by the client

Selected Template Details

Template name	Vendor	Device	Protocol	Format	Description
checkpointfw-syslog.itmpl	Check Point Software Technologies Ltd.	Firewall	Syslog	text	Syslog integration with Check Point firewall using syslog format messages.

[Save Changes](#)

\* indicates required field

Figure 14: Client Added

Admission Control > Configure > Clients

### Clients

[Configure](#) [Templates](#)

[Clients](#) [Policies](#)

[New Client](#) [Duplicate](#) [Enable](#) [Disable](#) [Delete](#)

10 records per page

	Name	IP Address	Protocol Type	Vendor	Device Type
1	Checkpoint	192.168.1.1	Syslog	Checkpoint	Firewall

- 3) Select the new template during policy creation (Endpoint Policy > Admission Control > Policies). Events and severities are populated based on the template.



Figure 15: Policy

Admission Control > Configure > Policies > New Policy

### New Policy

\* Name:

\* Template:

Template name	Vendor	Device	Protocol	Format	Description
checkpointfw-syslog.itmpl	Check Point Software Technologies Ltd.	Firewall	Syslog	text	Syslog integration with Check Point firewall using syslog format messages.

▼ Rule on receiving

\* Events: 

✓ - Select -

Anti Malware

New Anti Virus

Anti Virus

Threat Emulation

URL Filtering

IPS

IPS-1

SmartDefense

MTA

Anti-Spam and Email Security

Threat Extraction

Any

▼ Count these many times

\* Count:

▼ then perform this action

▼ Roles

☒ Policy applies to ALL roles  
☐ Policy applies to SELECTED roles  
☐ Policy applies to all roles OTHER THAN those selected below

Available roles:

Guest

Guest Admin

Guest Sponsor

Guest Wired Restrictec

Users

Add ->

Remove

Selected roles:

(none)

Figure 16: Severity

\* Name:

\* Template:

Template name	Vendor	Device	Protocol	Format	Description
checkpointfw-syslog.itmpl	Check Point Software Technologies Ltd.	Firewall	Syslog	text	Syslog integration with Check Point firewall using syslog format messages.

▼ Rule on receiving

\* Events:

\* Severity Level:

▼ Count these many times

\* Count:

## Configuring Check Point Firewall

The PPS device must be added as a syslog server while configuring the Check Point firewall for sending the logging information. You must add Check Point firewall as syslog client on PPS.

Sample Syslog:

```
cp_log_export add name <name> [domain-server <domain-server>] target-server <target-server IP address> target-port <target-port> protocol <(udp|tcp)> format <(syslog)|(cef)|(splunk)(generic)> [optional arguments]
```

Example:

```
cp_log_export add name pulse target-server 10.0.1.9 target-port 514 protocol udp format syslog
```

```
cp_log_export set name <name> filter-blade-in "value2"
```

One predefined family for "product" field (filter-blade-in):

**TP** for exporting only Threat Prevention logs (Anti-Bot, Anti-Exploit, Anti-Malware, Anti-Ransomware, Capsule Docs, Endpoint Compliance, Forensics, Full disc encryption, Media Encryption & Port Protection, Secure Client, Threat emulation, Threat extraction, Zero Phishing).

Example:

```
cp_log_export set name pulse filter-blade-in "TP"
```

For exporting Check Point logs over syslog, see [Log Exporter](#).

## Troubleshooting

To verify the event logs on PPS, select **System > Log/Monitoring > Events**. Ensure Admission control events option is enabled in Event logs settings.

You can verify that the event logs are generated every time when an event is received from Check Point.

Figure 17: Events

Pulse Secure											Pulse Policy Secure
System Authentication Administrators Users Endpoint Policy Maintenance Wizards											
Info	INT31545	2020-01-06 12:19:58 - [c - [127.0.0.1] System[] - Message received from client: 192.168.101.3 message: b'134+1 2020-01-06T06:49:13Z GW-R80 10 CheckPoint 17673 - [flags:"278528", idir:"inbound", loguid:"0x5e12d82a.0x2.0x444600a.0xc0000000"]; origin:"10.96.68.68"; originname:"cn=cp_mgmt, o=GW-R80.10.chkgrw10.ppsqa.local.uv7n"; sequencenum:"1"; time:"1578293353"; version:"5"; __policy_id_tag["product=VPN-1 & Firewall-1]db_tag=[C6012F88-539C-2641-9ACF-2B71CA37918E].mgmt=GW-R80.10.date=1577809356.policy_name=Standard[]"; log_id:"2"; product:"New Anti Virus"; received_bytes:"0"; sent_bytes:"0"; session_id["0x5e12d82a.0x2.0x444600a.0xc0000000"]; severity:"4"; suppressed_logs:"1"; ]									
Info	INT31545	2020-01-06 12:19:55 - [c - [127.0.0.1] System[] - Message received from client: 192.168.101.3 message: b'134+1 2020-01-06T06:49:11Z GW-R80 10 CheckPoint 17673 - [flags:"278528", idir:"inbound", loguid:"0x5e12d82a.0x2.0x444600a.0xc0000000"]; origin:"10.96.68.68"; originname:"cn=cp_mgmt, o=GW-R80.10.chkgrw10.ppsqa.local.uv7n"; sequencenum:"1"; time:"1578293351"; version:"5"; __policy_id_tag["product=VPN-1 & Firewall-1]db_tag=[C6012F88-539C-2641-9ACF-2B71CA37918E].mgmt=GW-R80.10.date=1577809356.policy_name=Standard[]"; log_id:"2"; product:"New Anti Virus"; received_bytes:"0"; sent_bytes:"0"; session_id["0x5e12d82a.0x2.0x444600a.0xc0000000"]; severity:"4"; suppressed_logs:"2"; ]									
Info	INT31545	2020-01-06 12:18:56 - [c - [127.0.0.1] System[] - Message received from client: 192.168.101.3 message: b'134+1 2020-01-06T06:48:12Z GW-R80 10 CheckPoint 17673 - [flags:"311296", idir:"outbound", ifname:"eth2", loguid:"0x5e12d82a.0x2.0x444600a.0xc0000000"]; origin:"10.96.68.68"; originname:"cn=cp_mgmt, o=GW-R80.10.chkgrw10.ppsqa.local.uv7n"; sequencenum:"1"; time:"1578293292"; version:"5"; __policy_id_tag["product=VPN-1 & Firewall-1]db_tag=[C6012F88-539C-2641-9ACF-2B71CA37918E].mgmt=GW-R80.10.date=1577809356.policy_name=Standard[]"; log_id:"2"; product:"New Anti Virus"; resource:"http://malware.wicar.org/data/ekar.com/"; ]									
Info	INT31545	2020-01-06 12:18:56 - [c - [127.0.0.1] System[] - Message received from client: 192.168.101.3 message: b'134+1 2020-01-06T06:48:13Z GW-R80 10 CheckPoint 17673 - [flags:"18688", idir:"inbound", loguid:"0x5e12d82a.0x2.0x444600a.0xc0000000"]; origin:"10.96.68.68"; originname:"cn=cp_mgmt, o=GW-R80.10.chkgrw10.ppsqa.local.uv7n"; sequencenum:"1"; time:"1578293293"; version:"5"; log_id:"2"; packet_capture_name:"src-192.168.101.3.emf"; packet_capture_time:"1578293293"; packet_capture_unique_id:"192.168.101.3_maildir_sent_new_time1578293293_mail-3294459645-81238462.localhost"; product:"New Anti Virus"; ]									
Info	INT31545	2020-01-06 12:18:55 - [c - [127.0.0.1] System[] - Message received from client: 192.168.101.3 message: b'134+1 2020-01-06T06:48:11Z GW-R80 10 CheckPoint 17673 - [flags:"278528", idir:"inbound", loguid:"0x5e12d82a.0x2.0x444600a.0xc0000000"]; origin:"10.96.68.68"; originname:"cn=cp_mgmt, o=GW-R80.10.chkgrw10.ppsqa.local.uv7n"; sequencenum:"1"; time:"1578293291"; version:"5"; __policy_id_tag["product=VPN-1 & Firewall-1]db_tag=[C6012F88-539C-2641-9ACF-2B71CA37918E].mgmt=GW-R80.10.date=1577809356.policy_name=Standard[]"; log_id:"2"; product:"New Anti Virus"; session_id["0x5e12d82a.0x2.0x444600a.0xc0000000"]; severity:"4"; suppressed_logs:"1"; ]									
Info	INT31545	2020-01-06 12:18:56 - [c - [127.0.0.1] System[] - Message received from client: 192.168.101.3 message: b'134+1 2020-01-06T06:48:11Z GW-R80 10 CheckPoint 17673 - [flags:"18688", idir:"inbound", loguid:"0x5e12d82a.0x2.0x444600a.0xc0000000"]; origin:"10.96.68.68"; originname:"cn=cp_mgmt, o=GW-R80.10.chkgrw10.ppsqa.local.uv7n"; sequencenum:"1"; time:"1578293291"; version:"5"; log_id:"2"; packet_capture_name:"src-192.168.101.3.emf"; packet_capture_time:"1578293291"; packet_capture_unique_id:"192.168.101.3_maildir_sent_new_time1578293291_mail-2388406971-218321409.localhost"; product:"New Anti Virus"; ]									
Info	INT31545	2020-01-06 12:18:54 - [c - [127.0.0.1] System[] - Message received from client: 192.168.101.3 message: b'134+1 2020-01-06T06:48:10Z GW-R80 10 CheckPoint 17673 - [action:"Detect", flags:"444672", idir:"outbound", ifname:"eth2", loguid:"0x5e12d82a.0x2.0x444600a.0xc0000000"]; origin:"10.96.68.68"; originname:"cn=cp_mgmt, o=GW-R80.10.chkgrw10.ppsqa.local.uv7n"; sequencenum:"3"; time:"1578293290"; version:"5"; __policy_id_tag["product=VPN-1 & Firewall-1]db_tag=[C6012F88-539C-2641-9ACF-2B71CA37918E].mgmt=GW-R80.10.date=1577809356.policy_name=Standard[]"; confidence_level:"1"; dst:"192.168.100.2"; log_id:"2"; malware_action:"Access to site known to contain malware"; malware_rule_id["593D7AE4-9750-4D47-AFEF-6CEFC79F3DE3"]; malware_rule_name:"TP Policy"; policy:"Standard"; policy_time:"1577829159"; product:"New Anti Virus"; protection_id["004F66240"]; protection_name:"Rendering TC a"; protection_type:"URL reputation"; proto:"6"; proxy_src_ip["192.168.101.3"]; resource:"http://malware.wicar.org/data/ekar.com/"; s_port:"49285"; scope:"192.168.101.3"; service:"8080"; session_id["0x5e12d82a.0x2.0x444600a.0xc0000000"]; severity:"4"; smartdefense_profile:"Optimized"; source_os:"Windows"; src:"192.168.101.3"; layer_name:"Standard Threat Prevention"; layer_uid["A199E513-A565-4851-B23D-6CBF57B023C3"]; malware_rule_id["593D7AE4-9750-4D47-AFEF-6CEFC79F3DE3"]; malware_rule_name:"TP Policy"; smartdefense_profile:"Optimized"; vendor_list:"Check Point ThreatCloud"; web_client_type:"Chrome"; ]									
Info	INT31545	2020-01-06 12:18:54 - [c - [127.0.0.1] System[] - Message received from client: 192.168.101.3 message: b'134+1 2020-01-06T06:48:10Z GW-R80 10 CheckPoint 17673 - [action:"Detect", flags:"444672", idir:"outbound", ifname:"eth2", loguid:"0x5e12d82a.0x2.0x444600a.0xc0000000"]; origin:"10.96.68.68"; originname:"cn=cp_mgmt, o=GW-R80.10.chkgrw10.ppsqa.local.uv7n"; sequencenum:"2"; time:"1578293290"; version:"5"; __policy_id_tag["product=VPN-1 & Firewall-1]db_tag=[C6012F88-539C-2641-9ACF-2B71CA37918E].mgmt=GW-R80.10.date=1577809356.policy_name=Standard[]"; confidence_level:"1"; dst:"192.168.100.2"; log_id:"2"; malware_action:"Access to site known to contain malware"; malware_rule_id["593D7AE4-9750-4D47-AFEF-6CEFC79F3DE3"]; malware_rule_name:"TP Policy"; policy:"Standard"; policy_time:"1577829159"; product:"New Anti Virus"; protection_id["000EF21ED"]; protection_name:"Test TC g"; protection_type:"URL reputation"; proto:"6"; proxy_src_ip["192.168.101.3"]; resource:"http://malware.wicar.org/data/ekar.com/"; s_port:"49285"; scope:"192.168.101.3"; service:"8080"; session_id["0x5e12d82a.0x2.0x444600a.0xc0000000"]; severity:"4"; smartdefense_profile:"Optimized"; source_os:"Windows"; src:"192.168.101.3"; layer_name:"Standard Threat Prevention"; layer_uid["A199E513-A565-4851-B23D-6CBF57B023C3"]; malware_rule_id["593D7AE4-9750-4D47-AFEF-6CEFC79F3DE3"]; malware_rule_name:"TP Policy"; smartdefense_profile:"Optimized"; vendor_list:"Check Point ThreatCloud"; web_client_type:"Chrome"; ]									

To verify the user access logs, select System > Log/Monitoring > User Access to verify the user login related logs.

Figure 18: User Access Logs

		Pulse Secure		System	Authentication	Administrators	Users	Endpoint Policy	Maintenance	Wizards	
Info	AUT20915	2020-01-06 13:24:45 - [c - [192.168.101.3] useron30[Users][CheckPoint_Demo_Limited_Access_Role] - Session timed out for useron30/Users (session:c69d553) due to inactivity (last access at 12:53:09 2020/01/06). Idle session identified after user request.									
Info	INT31554	2020-01-06 12:22:52 - [c - [192.168.101.3] useron30[Users][CheckPoint_Demo_Limited_Access_Role] - Changed role for user: useron30 to CheckPoint_Demo_Limited_Access_Role									
Info	INT31555	2020-01-06 12:22:52 - [c - [192.168.101.3] useron30[Users][CheckPoint_Demo_Limited_Access_Role] - User: useron30 has been quarantined									
Info	AUT24414	2020-01-06 12:22:35 - [c - [192.168.101.3] useron30[Users][CheckPoint_Demo_Full_Access_Role, CheckPoint_Demo_Limited_Access_Role] - Agent login succeeded for useron30/Users from 192.168.101.3 with Pulse-Secure/9.1.4.1713 (Windows 7) Pulse/9.1.4.1713.									
Info	AUT24326	2020-01-06 12:22:35 - [c - [192.168.101.3] useron30[Users][ - Primary authentication successful for useron30/System Local from 192.168.101.3									
Info	AUT22673	2020-01-06 12:19:51 - [c - [192.168.101.3] useron30[Users][CheckPoint_Demo_Limited_Access_Role] - Logout from 192.168.101.3 (session:3068b997)									
Info	INT31554	2020-01-06 12:18:54 - [c - [192.168.101.3] useron30[Users][CheckPoint_Demo_Limited_Access_Role] - Changed role for user: useron30 to CheckPoint_Demo_Limited_Access_Role									
Info	INT31554	2020-01-06 12:18:54 - [c - [192.168.101.3] useron30[Users][CheckPoint_Demo_Limited_Access_Role] - Changed role for user: useron30 to CheckPoint_Demo_Limited_Access_Role									
Info	AUT24414	2020-01-06 12:18:42 - [c - [192.168.101.3] useron30[Users][CheckPoint_Demo_Full_Access_Role, CheckPoint_Demo_Limited_Access_Role] - Agent login succeeded for useron30/Users from 192.168.101.3 with Pulse-Secure/9.1.4.1713 (Windows 7) Pulse/9.1.4.1713.									
Info	AUT24326	2020-01-06 12:18:42 - [c - [192.168.101.3] useron30[Users][ - Primary authentication successful for useron30/System Local from 192.168.101.3									